

Claims

Claim 1 (Currently amended): In combination with a cabinet having opposite side walls and a front opening and a door movable between open and closed positions relative to the front opening, a hinge for pivotally connecting the door to the cabinet, comprising:
a door leaf mounted ~~and fully enclosed within~~ the door;
a cabinet leaf mounted on an exterior surface of the cabinet; and
an intermediate leaf interconnecting the door and cabinet leaves so as to allow the door to pivot 270° between open and a closed positions position over the front opening of the cabinet and an open position along one of the side walls of the cabinet.

Claim 2 (Original): The hinge of claim 1 further comprising a first pin connecting the door leaf and intermediate leaf together and a second pin connecting the cabinet leaf and intermediate leaf together.

Claim 3 (Currently amended): The hinge of claim 2 wherein the ~~first pin-door leaf~~ is fully enclosed within the door so as to be hidden from view when the door is open.

Claim 4 (Original): The hinge of claim 2 wherein the intermediate leaf pivots about the second pin and then the door leaf pivots about the first pin when opening the door.

Claim 5 (Original): The hinge of claim 2 wherein the cabinet leaf is fixed relative to the second pin and the intermediate leaf pivots about the second pin.

Claim 6 (Original): The hinge of claim 2 wherein the door leaf pivots about the first pin and then the intermediate leaf pivots about the second pin when closing the door.

Claim 7 (Cancelled)

Claim 8 (Original): The hinge of claim 2 wherein at least one of the cabinet leaf and intermediate leaf includes a cam ramp to delay full pivotal movement about the second pin until pivotal movement about the first pin is complete.

Claim 9 (Original): The hinge of claim 1 wherein the door leaf and the intermediate leaf pivots sequentially about the first and second pins.

Claim 10 (Original): The hinge of claim 9 wherein the sequential pivot operation of the first and second pins is reversed between the opening and closing operations.

Claim 11 (Original): The hinge of claim 1 wherein the intermediate leaf includes a first end within the door and a second end outside the door.

Claim 12 (Original): The hinge of claim 9 wherein the intermediate leaf has a curved portion extending between the first and second ends and extending through an opening in the door.

Claim 13 (Currently amended): A cabinet comprising:

a plurality pair of side walls defining with a door opening there between;

a door ~~mounted on one of the walls so as to move~~ movable between open and closed positions relative to the door opening; and
the door having a front face and a perpendicular side edge with a slot in the side edge;
a pair of hinges for pivotally mounting the door ~~to the one wall~~, each hinge including first and second pivot pins, ~~with at least one of the first pin pins~~ being substantially hidden within the door when the door is in both the open and closed positions; and
each hinge includes a door leaf hidden within the door when the door is in both the open and closed positions, a cabinet leaf, and an intermediate leaf having a first end inside the door, a second end outside the door, and a middle portion extending through the door slot, with the door leaf and intermediate leaf connected by the first pivot pin, and the cabinet leaf and intermediate leaf connected by the second pivot pin.

Claim 14 (Original): The cabinet of claim 13 further comprising a rod interconnecting the pair of hinges.

Claims 15-18 (Cancelled)

Claim 19 (Currently amended): The cabinet of claim ~~15~~ 13 wherein the door leaf and cabinet leaf are fixed with respect to the door and the cabinet, the door leaf pivots about the first pin, and the intermediate leaf pivots about the second pin.

Claim 20 (Currently amended): The cabinet of claim ~~18~~ 19 wherein the pivotal movement occurs sequentially about the first and second pins.

Claim 21 (Currently amended): The cabinet of claim ~~15~~ 13 wherein the intermediate leaf has a curved portion extending between the door leaf and cabinet leaf.

Claim 22 (Cancelled)

Claim 23 (Previously presented): The cabinet of claim 21 wherein the intermediate leaf has a curved portion that is substantially a radius centered at the first pivot pin.

Claim 24 (Currently amended): The cabinet of claim 13 wherein the hinges pivot about the pins to allow the door to swing approximately 270° ~~relative to the one wall~~ between the open and closed positions.

Claim 25 (Currently amended): In combination with a cabinet and door, a hinge for pivotally connecting the door to the cabinet, comprising:
a door leaf mounted and fully enclosed within the door;
a cabinet leaf mounted on the cabinet;
an intermediate leaf interconnecting the door and cabinet leaves; and
~~means an inclined cam ramp on at least one of the leaves~~ for controlling the order of operation of the leaves.

Claim 26 (Original): The hinge of claim 25 further comprising a first pin to connect the door leaf and intermediate leaf and a second pin to connect the cabinet leaf and intermediate leaf.

Claim 27 (Currently amended): The hinge of claim 26 wherein the means cam ramp provides greater torsional resistance between the cabinet leaf and intermediate leaf than between the door leaf and intermediate leaf when closing the door.
one of the cabinets leaf and intermediate leaf.

Claims 28-32 (Cancelled)

Claim 33 (New): The hinge of claim 1 wherein the door includes a front face and a perpendicular edge with a slot therein, the intermediate leaf having a first end hidden within the door in both the open and closed positions, a second end outside the door, and an intermediate portion extending through the door slot.

Claim 34 (New): The cabinet of claim 13 wherein the hinges pivot the door 270° between a closed position over the door opening and an open position parallel to the side walls.